



BRUHAT BANGALORE MAHANAGARA PALIKE - YELAHANKA ZONE

Name of Work: Solid Waste Management Work in Ward No.08

Bill of Quantities

Sl. No.	Description of Item	Unit	Quantity	Rate as per estimate in Rs.		Amount in Rs.
				In Figures	In Words	
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.	Cum	100.67	246.99	Rupees Two Hundred Forty Six and Paise Ninety Nine Only	24864.99
2	KSRB 2.14-1: Extra for additional lift of 1.5m. or part there of for excavation in loose / soft or hard soil including cost of materials, labour complete as per specifications.	Cum	18.21	263.97	Rupees Two Hundred Sixty Three and Paise Ninety Seven Only	4806.17
3	KSRB-3.2: Providing and injecting chemical emulsion for Pre- constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyrphos emulsifiable concentrates of 20% concentration, including cost of chemical, diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications. (Plinth area of the building at ground floor only shall be measured).	Sqm	87.50	134.80	Rupees One Hundred Thirty Four and Paise Sixty Only	11777.54
4	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. No. KBS	Cum	28.96	2762.66	Rupees Two Thousand Seven Hundred Sixty Two and Paise Fifty Eight Only	79997.27
5	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @220kgs. with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 465 cum machine mixed, machine mixed concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth, including cost of all material, labour HOM Machinery curing complete as per specification	Cum	64.85	6594.11	Rupees Six Thousand Five Hundred Ninety Four and Paise Eleven Only	427644.70
6	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	Cum	135.66	5471.67	Rupees Five Thousand Four Hundred Seventy One and Paise Fifty Seven Only	742256.99
7	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No KBS 4.6.2	Sqm	50.40	301.87	Rupees Three Hundred One and Paise Eighty Seven Only	15214.29
8	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.	Sqm	70.66	302.89	Rupees Three Hundred Eighty Two and Paise Eighty Nine Only	27016.89

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KRIDL, BBMP DIVISION
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Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

Project Division
Yelahanka Zone

Sl. No.	Description of Item	Unit	Quantity	Rate as per estimate in Rs.	Amount in Rs.
9	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular polygon in plan including cost of all materials, labour complete as per specifications.	Sqm	105.00	478.29 Rupees Four Hundred Seventy Eight and Paise Twenty Nine Only	50220.32
10	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.	Cum	67.04	7855.17 Rupees Seven Thousand Eight Hundred Fifty Five and Paise Seventeen Only	526581.46
11	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. - TMT bars Fe 500	Tonne	4.64	79201.23 Rupees Seventy Nine Thousand Two Hundred One and Paise Twenty Three Only	367493.70
12	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto SO m. and lift upto 1.5 m. including cost of all labour complete as per specifications.	Cum	40.04	165.96 Rupees One Hundred Sixty Five and Paise Ninety Six Only	6645.18
13	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not less than 1800 kg/m ³ and having a minimum average compressive strength 5.00 N/mm ² conforming to IS 2185 (Part) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per	Sqm	133.43	1224.47 Rupees One Thousand Two Hundred Twenty Four and Paise Forty Seven Only	163375.12
14	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per	Sqm	125.55	271.81 Rupees Two Hundred Seventy One and Paise Eighty One Only	34126.30
15	KSRB 15.3.2 Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	121.05	215.62 Rupees Two Hundred Fifteen and Paise Sixty Two Only	26101.04
16	KSRB 15.10.2 Providing white washing for every one additional coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications. Same As Internal and Ceiling Plastering Qnty	Sqm	121.05	5.23 Rupees Five and Paise Twenty Three Only	632.75
17	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. Same As External Plastering Qnty	Sqm	125.55	109.77 Rupees One Hundred Nine and Paise Seventy Seven Only	13781.77
18	Providing and applying two coats with Plastic emulsion paint of approved brand wall surface to a give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter, including priming, including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications, with primer. Same As Internal Plastering Qnty(Page For internal walls.	Sqm	121.05	117.61 Rupees One Hundred Seventeen and Paise Sixty One Only	14236.93

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Sl. No.	Description of Item	Unit	Quantity	Rate as per estimate in Rs.	Amount in Rs.
19	Supplying and fixing pressed steel door frames size 125x65 mm manufactured from 1.25mm thick carbon steel or imported steel strips with mitred joints of 900 for door openings and shutters made out of seasoned Honne wood, styles of 30 mm, thick with lock rail of 160 mm, width, top and side rails of 100 mm. width and bottom rails of 250 mm width and panel filling with 12mm thick particle board of exterior grade bonded with phenol formaldehyde resin and the shutter shall be rot proof, vermin proof, heat resistant guaranteed against shrinkage, warpage and such other defects for a period of 3 years. This shall be as per approved drawings, specification and direction including cost of conveyance, manufacturing, painting with enamel paint 2 coats over primer coat, cost of labour for all items of work, machinery, equipment and all other incidental charges with all lead, lift, loading and unloading etc., complete. The Hollow portion of the frame to be filled with cement concrete 1:2:4.	Sqm	16.00	4573.80	73180.80
20	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in-charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)	m	364.00	1070.27	389577.99
21	KSRB 7.9 : Providing and fixing M.S grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.	Kg	1883.70	101.93	192006.29
22	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. - 160mm dia	m	21.00	1084.64	22777.52
23	Fabricating, supplying and erecting M.S. Tubular Truss of span upto 10m. The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. angle and welding wherever necessary, and applying one coat of red oxide primer coat to all members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification.	Kg	6832.00	143.75	982086.34
24	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvalume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.	Sqm	275.35	1006.24	277067.08
25	KSRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter	sqm	185.00	78.41	14505.48
26	KSRB 800-9. Painting New Letter and Figures of any Shade with synthetic enamel paint black or any other approved colour to give an even shade complete as per specifications. (i) Hindi (Matras commas and the like not to be measured and paid for half letter shall be counted as half) * MORTH Specification No. 803(Page No. : 180, item No. 24.9)	cm	400.00	0.98	392.04

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Sl. No.	Description of Item	Unit	Quantity	Rate as per estimate in Rs.		Amount in Rs.
27	Metis Steel Platform Weighing Scale Weighing Scales capacity about 200kg (max), Manufacturer of Heavy-duty Industrial Floor weighing Scales tailored to your applications. Suitable for Steel Industries, Foundries, Metal Merchants, Pharmaceuticals Industries, Material Handling Industries, Food Storages, Petrochemical Industries, Chemical Factories, Warehouses, Transport Companies, Cargos, Logistics and Pharmaceutical Industries. (Market Rate)	Each	2.00	9000.00	Rupees Nine Thousand Only	18000.00
28	Supplying and wiring adopting loop system in existing PVC Conduit / casing cabling using 1100V grade, copper conductor flexible multi-strand FRLS PVC insulated, 2x1.5Sqmm cable conforming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block complete for each outlet a) Short point upto 3.0M from tapping point to outlet via switch box.	Each	20	144.00	Rupees One Hundred Forty Four Only	2880.00
29	Supplying and wiring adopting loop system in existing PVC Conduit / casing cabling using 1100V grade, copper conductor flexible multi-strand FRLS PVC insulated, 2x1.5Sqmm cable conforming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block complete for each outlet b) Medium point above 3.0M upto 6.0M from tapping point to outlet via switch box Chap No.	Each	10	215.00	Rupees Two Hundred Fifteen Only	2150.00
30	Supplying and wiring adopting loop system in existing PVC Conduit / casing cabling using 1100V grade, copper conductor flexible multi-strand FRLS PVC insulated, 2x1.5Sqmm cable conforming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block complete for each outlet c) Two outlet in a row, above 3.0M upto 6.0M from tapping point to outlet via switch box Chap No.	Each	8	423.00	Rupees Four Hundred Twenty Three Only	3384.00
31	Supplying and wiring adopting loop system in existing PVC Conduit / casing cabling using 1100V grade, copper conductor flexible multi-strand FRLS PVC insulated, 2x1.5Sqmm cable conforming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block complete for each outlet d) Three outlet in a row, above 6.0M upto 10.0M from tapping point to outlet via switch box	Each	4	593.00	Rupees Five Hundred Ninety Three Only	2372.00
32	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C. Wall) 1-3Way	Each	25	91.00	Rupees Ninety One Only	2275.00
33	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C. Wall) 4-5Way	Each	15	98.00	Rupees Ninety Eight Only	1470.00
34	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box a) 1-3Module	Each	25	109.00	Rupees One Hundred Nine Only	2725.00
35	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box b) 4Module Chap No.	Each	15	122.00	Rupees One Hundred Twenty Two Only	1830.00
36	Supplying and fixing of modular switch/socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293a) 6Amps one Way Item No. Page No 3-3 7.1-16	Each	50	63.00	Rupees Sixty Three Only	3150.00
37	Supplying and fixing of modular switch/socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293b) 6Amps Two way	Each	15	87.00	Rupees Eighty Seven Only	1305.00
38	Supplying and fixing of modular switch/socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293c) 6Amps 3way socket Item	Each	15	95.00	Rupees Ninety Five Only	1425.00

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Sl. No.	Description of Item	Unit	Quantity	Rate as per estimate in Rs.	Amount in Rs.
39	Supplying and fixing of modular switch/socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293d) Stepped fan Regulator Item No.	Each	30	286.00	8580.00
40	Supplying and fixing of modular switch/socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293e) 16Amps one way switch	Each	2	114.00	228.00
41	Supplying and fixing of modular switch/socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293f) 6Amps Bell push	Each	2	87.00	174.00
42	Supplying and fixing of modular switch/socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293g) 6/16Amps universal socket	Each	2	147.00	294.00
43	Supply and fixing metal fan box with round hook	Each	30	92.00	2760.00
44	Supply and fixing of 6Amps bell buzzer on existing switch board. Item	Each	2	117.00	234.00
45	Concealed Conduit System: Supplying following size heavy gauge PVC conduit pipe and following thick confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary a) 19mm dia 2mm thick Item No.	Mtr	150	43.00	6450.00
46	Concealed Conduit System: Supplying following size heavy gauge PVC conduit pipe and following thick confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessaryb) 25mm dia 2mm thick	Mtr	100	57.00	5700.00
47	Concealed Conduit System: Supplying following size heavy gauge PVC conduit pipe and following thick confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessaryc) 32mm dia 2.5mm thick	Mtr	30	90.00	2700.00
48	Groove cutting Supplying following size heavy gauge PVC conduit pipe following thick with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering upto the surface of the brick level and run with 18SWG GI fish wire run through out the conduit where ever necessary a) 19mm dia 2mm thick	Mtr	150	56.00	8400.00
49	Groove cutting Supplying following size heavy gauge PVC conduit pipe following thick with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering upto the surface of the brick level and run with 18SWG GI fish wire run through out the conduit where ever necessary b) 25mm dia 2mm thick Item No. Page No1-1.3.2-2	Mtr	100	58.00	5800.00
50	Groove cutting Supplying following size heavy gauge PVC conduit pipe following thick with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering upto the surface of the brick level and run with 18SWG GI fish wire run through out the conduit where ever necessary c) 32mm dia 2.5mm thick	Mtr	30	88.00	2640.00

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Contractor

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51	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & conforming to GTP of Group-A. a) 1.5sqmm	M	450	18.60	8370.00
52	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & conforming to GTP of Group-A. b) 2.5sqmm	M	290	29.20	8468.00
53	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & conforming to GTP of Group-A. c) 4sqmm Item No.	M	230	42.10	9683.00
54	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & conforming to GTP of Group-A. d) 6sqmm	M	100	63.80	6380.00
55	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & conforming to GTP of Group-A. f) 16sqmm Item No.	M	50	171.00	8550.00
56	Supplying and fixing regular MCB distribution Panel confirm to IS 8828, on wall/ woodboard / flush mounting using required clamps, bolts, nuts etc., with provision for fixing of suitable type capacity MCCB's as an incomer for 3 phase Double door with necessary busbar completely wired to use on 440Volts 3Phase 4wire powder coated painting etc., complete with a provision for fixing of single /three phase suitable capacity MCCB/MCB as outgoing confirm to IS8828. 8Way Group A Item No.	Each	3	9,095.00	27285.00
57	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with the thermal magnetic/micro processor release and earth fault as per IS -13947 (Icu=Ics) 100Amps 3pole 25kA Item No	Each	3	4,044.00	12132.00
58	Supplying and fixing regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting etc., Made out of 14SWG MS enclosure. 8way SP & N Item No.	Each	2	866.00	1732.00
59	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board. 16-25Amps 2 pole Item No.	Each	1	2,412.00	2412.00
60	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board. 32-40Amps 4 pole Item No.	Each	1	2,936.00	2936.00
61	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on existing wood/panel board. 63Amps 4 pole Item No.	Each	1	3,350.00	3350.00
62	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required. conforming to IEC 60898. 5-32A SP MCB Group A Item No.	Each	5	418.00	2090.00
63	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required. conforming to IEC 60898. 5-32A TPN MCB Group A Item No, Page No-6-16.5-47	Each	2	1,547.00	3094.00

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64	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required, conforming to IEC 60898, 40-63A TPN MCB Group A Item No.	Each	2	1,936.00	3872.00
65	Supplying of 2' - LED, PVC square batten 28Watts with high quality diffuser with life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power input: 220-240V @ 50Hz & power factor > 0.9 along with CE approved drivers. 5years warranty against any manufacturing defect working under standard electrical condition. 1x4' 28Watts Item No.	Each	25	1,774.00	44350.00
66	Supplying and fixing PBBC bakelite straight or slant batten holder and wiring with Group A 60w/230 V Item No.	Each	25	88.00	2200.00
67	Supplying of 2 pin/4pin 18W CFL lamp Item No	Each	25	120.00	3000.00
68	Supplying CFL Mirror light fitting with 1x11W CFL lamp, choke, perspex cover and completely wired for use on 230V 50Hz AC Supply Item No.	Each	25	648.00	16200.00
69	Supply of 2'x2' LED recessed luminaire with following watts system wattage. Housing shall be with pressure die cast aluminium alloy with corrosion proof resistant polyester powder coated. Driver operates with voltage range from 100V to 270V 50/60Hz with short circuit, over load & mis-wiring protection. Lumen maintenance of 70% at 50000Hrs. Injection moulded polycarbonate diffuser for better mechanical stability, light transmission & avoid hot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.6A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85%. THD < 15%. LED Efficiency > 130 lm/W at 1W & fixture efficiency > 75lm/W with CRI > 75 with injection moulded polycarbonate lens with < 80mm depth. 5Years warranty against any manufacturing defect working under standard electrical condition. LED modular down light 1'x1' - 36Watts Group A Item No.	each	10	7,006.00	70060.00
70	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable for operate on 230V 50Hz, AC Supply complete. 15" sweep (450mm) Group A Item No	Each	16	4,394.00	70304.00
71	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double, ball bearing system and as per technical data approved. 48" Sweep (1200mm) Regular Model Item No	Each	4	2,376.00	9504.00
72	Supplying wall mounting fan suitable to operate at single phase 230V AC Supply. 400mm sweep Group A Item No	Each	8	2,534.00	20272.00
73	Supplying of LED Flood light with following Watts system power consumption pressure die cast aluminium housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic driver, PF>0.9, should meet ANSI 2G vibration test, compliance to UL/CE with class I. System rating shall be 50K hours @ Lumen maintenance of 70% system efficiency > 80lm/W. Over load & short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 adherence with RoHS, UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the site location with minimized minimal tools. LED light fixture with following watts system power consumption. LED Efficiency > 130lm/W at 1W & fixture efficiency > 80lm/w with nominal CRI > 75. Luminaire manufacturer should have inhouse facility accredited by NABL/CPRI & any government certified agency & design & development facility certified by ISO 9001:2008.	each	8	6,500.00	52000.00
74	Fixing a ceiling/Wall mounting fan of all capacities and all types to the existing S hook together with supplying and fixing a 5 amperes ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring completely	Each	6	139.00	834.00

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Sl. No.	Description of Item	Unit	Quantity	Rate as per estimate in Rs.	Amount in Rs.
75	Fixing one exhaust fan after making a suitable notch in the wall and finishing with cement mortar and colouring to match the existing wall or rackets with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23/0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame if required.	Each	8	680.00	5440.00
76	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Verner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Water in the vicinity, its quality 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc., as per Specification and direction	Each BW	1	1882.00	1882.00
77	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.) P. 46 / I. 9.0 to 50 m	Rmtr	50.00	306.00	15300.00
78	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.)	Rmtr	50.00	400.00	20000.00
79	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.)	Rmtr	50.00	445.00	22250.00
80	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.)	Rmtr	50.00	470.00	23500.00
81	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.)	Rmtr	50.00	544.00	27200.00
82	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.)	Rmtr	50.00	583.00	29150.00
83	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporting vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.)	Rmtr	50.00	622.00	31100.00

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Sl. No.	Description of Item	Unit	Quantity	Rate as per estimate in Rs.	Amount in Rs.
84	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick conforming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and conforming to IS 1387/1993 and IS 554/1985, one end fixed with socket conforming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and duties) Prices include Collar-medium duty	Rmtr	50.00	1325.00	66250.00
85	Providing 250mm dia PVC Pipe 6kg/cm SE	Rmtr	18.00	754.47	13580.46
86	Providing and fixing 160mm Borewell Cap P. iii, I No. 85	Each	1	100.00	100.00
87	Supply and delivery at site brand New texmo/ innovall/ Lubil/ Sabar / Atalanta/ Calamall/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for operation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required accessories such as suction, casing suction strainers sand guard Non return valve etc. complete. The pump and motor shall form an integral unit with all the required fittings including of all taxes 17.5 HP 30 Stage	No	1	74300	74300.00
88	Supplying of ISI marked galvanized mild steel tube (continuously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threated at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendment 1-5 and with all its latest amendments if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008	Rmtr	250.00	375.00	93750.00
89	Heavy Duty Collar 50 mm dia	Nos	44	130.00	5720.00
90	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor conforming to table 3 class 5 of IS-8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & conforming to GTP of GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 6 Sqm mm,	Mtr	510.00	188.70	96237.00
91	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves gauges etc., involved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) (As per rate approved KUWS & DB for year 2008-09	No	1	3000.00	3000.00
92	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,	Each	1	302.00	302.00
93	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) conforming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & conforming to GTP of GROUP-A P No. 55/I No. 7.4.4.4 core 16 Sqmm	Mtr	30.00	140.40	4212.00
94	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required in existing trench/duct.	Mtr	30.00	10.80	324.00
95	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) P No. 61 / I No. 7.9.3For Cutting Road Surface	Mtr	25.00	85.00	2125.00
96	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV P. No. 62 / I No. 7.12.1	Mtr	4.00	345.00	1380.00

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Sl. No.	Description of Item	Unit	Quantity	Rate as per estimate in Rs.	Amount in Rs.
97	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 62/I.No. 7.13.2	No.	100	280.00	280.00
98	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all- round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia.	No	1	2727.00	2727.00
99	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. P No. 44 /I. No. 6.7.2.32 Amps	No.	6	180.00	1080.00
100	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13	Nos	1	1615.68	1615.68
101	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 95/I. No. 13.81.3.50mm dia	No	1	232.20	232.20
102	Supplying and fixing 50mm dia GI X pipe with ISI mark with all lead and lift loading unloading and labour charges etc complete	No	4	80.00	320.00
103	Supplying shunt capacitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications	No	1	350.00	350.00
104	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required conforming to IEC 60898. 5-32Amps TPN P No. 47 /I No 6.16.5	No	1	1547.00	1547.00
105	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete	Sq.Cm	14400	0.33	4752.00
106	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete P.No. 49, I. No. 6.40.2	Sq.Cm	7500	0.33	2475.00
107	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 12.5HP to 15 HP Star Delta Starter SERDED Rate	No.	1	11000	11000.00

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Sl. No.	Description of Item	Unit	Quantity	Rate as per estimate in Rs.	Amount in Rs.
108	Earthwork excavation for pipeline trenches including deporting or bank up to a lead of 50 mtrs including shirry and statting danger lighting and using site rails and boning poles at every 100 mtrs wherever necessary as directed in th following structure manhole Hard Soil	Cum	27.00	188.00	5076.00
109	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and including lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth available from the excavation Etc., 75 mm dia 6 KSC PVC pipe	Rmtr	60.00	157.00	9420.00
110	Refilling the basement and pipeline treanches with scleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the surplus earth with a heavy 200 mtrs	Cum	27.00	61.00	1647.00
111	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification	Each	2	2216.16	4432.32
112	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3	cum	2295.55	221.78	509107.08
113	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chisle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications	Cum	49.19	6540.53	321755.03
114	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	Sqm	297.00	126.76	37647.60
115	KSRB 4-1-6: Providing and laying in position plain cement concrete of mix 1:2.4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.530 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.	Cum	20.11	7110.30	142988.11
116	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage 'of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density,complete as per specifications. MORTH Specification No. 406	Cum	173.42	2179.74	378010.93
117	KSRB 14.6-1: Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machines complete as per specifications. Specification No. KBS	sqm.	650.00	1191.80	774671.04
118	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2.4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc ,complete.	No.	1156.00	409.03	472836.83

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Sl. No.	Description of Item	Unit	Quantity	Rate as per estimate in Rs.	Amount in Rs.
119	Providing chain link fencing 50mm size of 8 gauge properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint	Sqm	440.00	861.18	378919.73
120	Providing and fixing M.S. Block pipe of 38mm dia. of heavy gauge of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two vertical poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint.	m	440.00	423.40	186297.41
121	Providing and making precast seating arrangement including excavation laying pcc M15, providing laying M20 concrete for pedestal and seating slab, fixing of seating slab including all necessary bolt and nuts etc, complete and as per the directions of Engineer in-Charge. (Data Rate)	Each	6.00	10510.00	63060.00
122	Fabricating, providing and erecting in position of Hot dip galvanised M.S. Ornamental security Grill M.S. Flat for around frame work with verticals at the centre and horizontal center support M.S. Square of 20 x 20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for square bars of full height and at 8cms C / C for bottom rods providg ornamental C.I Designers at the bottom and C.I arrows in the middle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necessary drilling holes, the work includes providing two coats of enamel painting over one coat of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulley cranes etc as per specification and drawings.	Kg	600.00	189.40	113691.60
Total Tender Price (In Words): Rupees Eighty Nine Lakh Twenty Seven Thousand Four Hundred Twelve and Thirty Four paise Only				Tender Price:	8927412.34

Note:

- Item for which no rate or price has been entered in will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the bill of quantities (refer ITB clause 11.2 and CC clause 37.2).
- Unit rates and Prices shall be quoted by the tender in Indian Rupees.
- Where there is a discrepancy between the rate in figures and words, the lower of the two will govern. (ITT Clause 24.1(a))
- Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by quantity, the unit rate quoted shall govern (ITT Clause 24.1(b))

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